

The intelligent simplicity of MasterBus



The advanced functions of custom made systems are now within easy reach thanks to the MasterBus platform (single communication protocol with high-speed CANbus technology). The intelligent, one-cable MasterBus network greatly simplifies wiring, saving you valuable space and weight. Additionally, you can automate and customize your system to meet all your requirements.

The wide range of interfaces and modules allows you to connect any equipment you wish to your MasterBus system and manage, monitor or operate it locally, centrally or even from your home address. Thanks to galvanic isolation, nearly all devices can supply power to the MasterBus, ensuring a safe and stable network.

Professional perspective

MasterBus also makes life easier for designers, builders and installers of power systems with less material, less work, less fuss and an easy testing method. Moreover, it is available in ten languages and offers the same user interface for all (Mastervolt) products, such as battery chargers, inverters, generators, batteries or other devices. All control panels have an identical layout, with or without PC software.

Easy maintenance

Replacing a component can often lead to complex configuration problems. Not with Mastervolt: The MasterBus network 'recognises' any replacement directly and automatically asks whether you want to keep the same or change your configuration. You stay well informed and with *everything under control*.

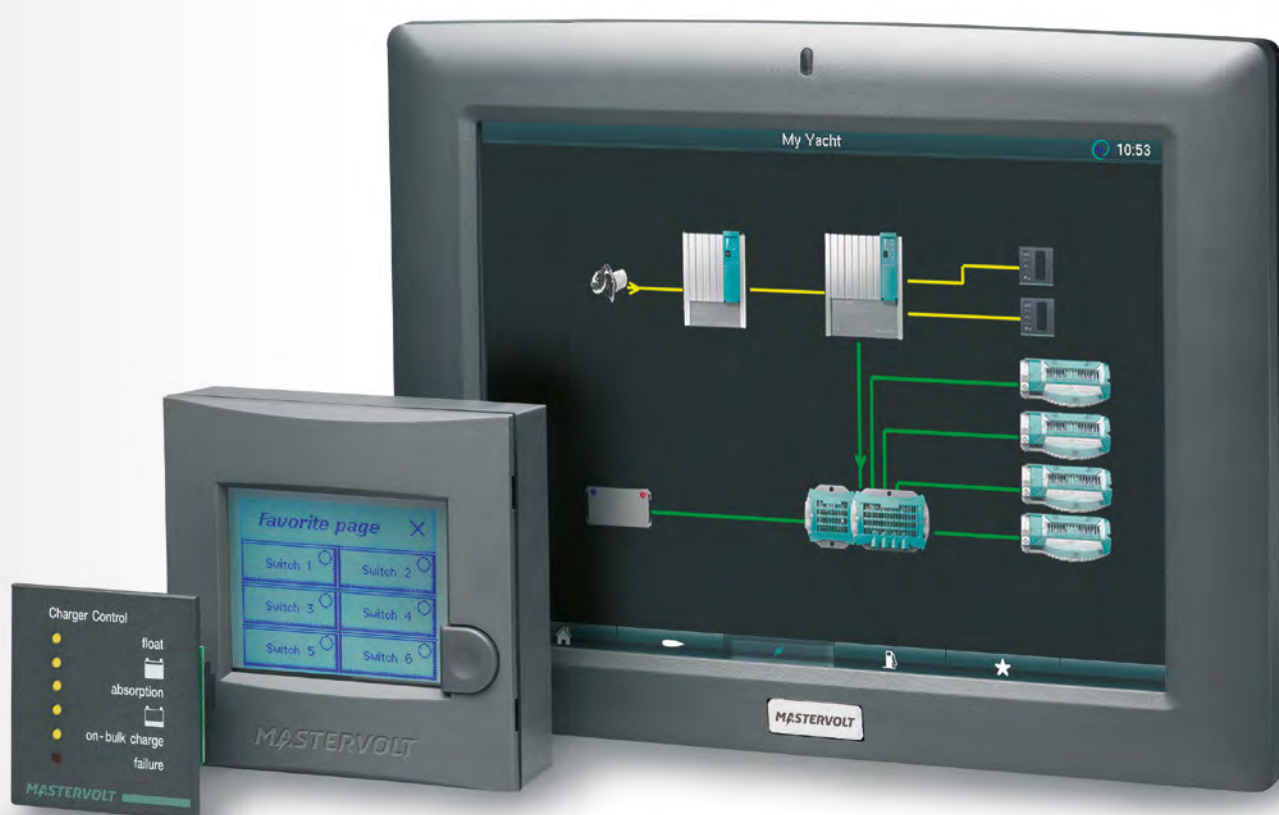
QUOTE

"Mastervolt is the only manufacturer that designs & produces most of their products in-house. That is why all their products work almost seamless together, and the reason why we've been working exclusively with Mastervolt for the past 20 years!"

MIGUEL SAS, MANAGING DIRECTOR
NAVEX ELEKTRO NV, BELGIUM

MasterView control panels: Monitor & control your MasterBus network

Fast and clear information about your onboard electrical system is vital. Usually a number of multiple panels are required to read the details of an expansive electrical system, and the interpretation of these panels and how they relate to one another is left to the user. Mastervolt puts an end to this undesirable situation with its intelligent MasterView panels.



The smartest solution: MasterView System

Mastervolt's intelligent MasterView System brings an end to cluttered, unclear and excessive information. The system is based on our in-house developed software combined with a user-friendly 10.4-inch colour touch screen. The simple yet brilliant set-up of the MasterView System intelligently connects all the power sources and loads via the MasterBus. It provides all information you need on your electrical system in one clear overview on an organised, intuitively operated panel.

Multifunctional touch screen remote panel: MasterView Easy

This multifunctional display can monitor every MasterBus product. Connected to the Mastershuttle it functions as a battery monitor, connected to the generator as a generator panel. These and other functions can also take place simultaneously and you can create a favourites page showing all your main information.

MasterView Read-out

Control panel for all MasterBus products

Remote panel for reading the charge status of your battery charger, including error notifications.



MasterView Read-out	
Product code	77010050
Display	7 LEDs
Dimensions, h x w	60 x 65 mm / 2.4 x 2.6 inch
Weight	70 g / 0.15 lb
MasterBus connection	yes
Powered by	MasterBus
Power consumption	144 mW
Protection degree	IP21



MasterView Read-out OEM	
Product code	77010030

If your dashboard is full and does not offer space for a MasterView panel, this module allows you to integrate the MasterView Read-out into your own control panel.

MasterView Easy

Touchscreen control panel for all MasterBus products

This touchscreen control panel is easy to read and operate. The grey button turns the display on or off or locks it, while all other functions can be controlled using the touchscreen.

The first of three control levels provides a short system overview with all the information you may need on a daily basis. The product overview screen shows detailed information. The favourites screen can be custom designed to meet your specific needs for information and control. The MasterBus cable is used for data transfer and as a power supply for the display.

Benefits:

- Clearly lit display.
- On/off button and lock to prevent unwanted activities.
- Touchscreen control of all functions.
- White background light – red for alarm functions or night lighting.
- Buzzer and alarm function.
- Requires only one MasterBus cable for data transfer and power supply.
- Low energy consumption.
- Easy to install (flush and surface mounted).

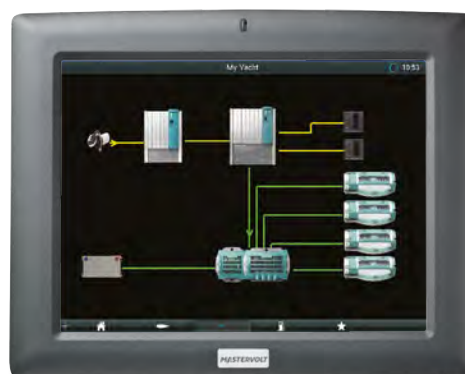


MasterView Easy	
Product code	77010305
Display	3.5 inch touch screen
Dimensions, h x w x d	110 x 110 x 20 mm 4.3 x 4.3 x 0.8 inch
Weight	230 gr / 0.51 lb
MasterBus connection	yes
Powered by	MasterBus
Power consumption	160 mW
Protection degree	IP21
Languages	ENG, NL, DE, SP, IT, FRA, FIN, SWE, DEN, NOR

MasterView System

Interactive touchscreen

This full color graphical display helps installers to configure the electrical onboard system, and is extremely easy to reproduce. Configuration, monitoring and operation becomes easier, cheaper, lighter and faster. The software makes complicated electrical systems understandable for each user. Electricity has become fun to operate!



Favourites screen

The favourites screen can be custom designed to meet your specific needs for information and control. Any information that is available on the MasterBus network can be shown in the most logical way. Multiple pages can display information, for example, one overview page, one or two breaker pages, an engine information page and a NMEA 2000 information page.

System overview

This screen gives a dynamic graphical overview of your electric system, answering any questions you have in an instant. Incorrect line voltages are shown in red, inactive circuits in grey: It couldn't be easier.



Digital switching screen

This screen shows the complete layout, lights, selected pumps and other consumers. You manage the loads by clicking the icons. The background image can be uploaded for full customisation. Alarm notifications are shown via eye-catching pop-ups.



Tank level screen

Stop guessing and know immediately the contents of up to 20 tanks. You can also install your own warning signals for full or (nearly) empty tanks. All you need to do is connect the MasterBus Tanklevel Interface to the MasterBus system.



Home screen

The home screen provides a status overview of power sources like grid power, inverters, generators and batteries. A basic form of control is possible, for example turning on and off your inverter.

MasterView System	
Product code	77010400
Display	10.4 inch colour touch screen
Dimensions, hxxxd	222 x 276 x 38 mm 8.7 x 10.9 x 1.5 inch
Weight	1.4 kg / 3.1 lb
MasterBus connection	by means of System Panel Controller (delivered as standard)
Power	by means of System Panel Controller (delivered as standard)
Power consumption	28 W
Protection degree	IP64 (front)
Languages	ENG, NL, DE, SP, IT, FRA, FIN, SWE, DEN, NOR

System Panel Controller

Connect the MasterView System or your PC with the MasterBus network. Provides the power and software license key for the MasterView System panel.

Delivered as standard with MasterView System.
Also available separately.



Product code	77031900
MasterBus powering	yes (when the PC is switched on)
Dimensions, hxxxd	91 x 185 x 33 mm 3.6 x 7.3 x 1.3 inch
Weight	± 750 g / 1.65 lb
Protection degree	IP65
Delivered with	USB cable, SPC cable, MasterBus cable, MasterBus Terminator, user's manual

The basic components of a MasterBus network

MasterShunt 500

MasterBus integrated battery monitor, with detailed information on the status of your batteries for an optimised charging process, including voltage, current, remaining time and consumption capacity in percentage. With an intelligent connection system, the MasterShunt is easily connected to the DC Distribution. The integrated system clock combined with command-based events custom automates the system to your needs. Example of system automation: The generator should start automatically when the batteries are almost depleted. The MasterShunt also provides a robust built-in main fuse that can safely interrupt short-circuit currents of 20 kA.



	MasterShunt 500
Product code	77020100
Dimensions, hwxwd	150 x 150 x 65 mm 5.9 x 5.9 x 2.5 inch
Weight	1 kg / 2.2 lb
Battery types	gel, AGM, wet, Lithium Ion, spiral
Battery voltage	12, 24 or 48 V DC
Current	300 A continuous / 500 A for 5 minutes
MasterBus powering	yes
Main fuse	500 A T-fuse (300 A continuous at 40 °C)
System functionality	alarm, timers, auto start/stop for the generator
Programmable alarms	warning low voltage, warning low state of charge, high voltage
Protection degree	IP21
Delivered with	MasterShunt, temperature sensor, MasterBus Terminator, MasterBus cable, isolation cover for DC connections

DC Distribution 500

The DC Distribution 500 is the smallest distribution model available. It connects up to four DC devices to the DC groups, such as a battery charger, inverter, alternators and solar panels. With the included plug & play cable it can be easily connected to the MasterBus network. The MasterView panel gives all fuses logical names, for instance, referring to the connected equipment, to ensure you receive understandable error notifications (for example: battery charger fuse defect).



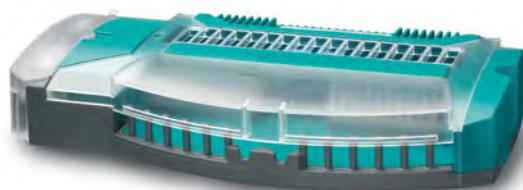
	DC Distribution 500
Product code	77020200
Dimensions, hwxwd	150 x 216 x 65 mm 5.9 x 7.9 x 2.5 inch
Weight	1.2 kg / 2.6 lb
Battery voltage	12, 24 or 48 V DC
Current	300 A continuous / 500 A for 5 minutes
MasterBus powering	no
Standard fuses	80, 80, 125, 160 A - ANL type (deviating values can be ordered separately)
Spare fuse	125 A ANL type
Alarm	fuse monitoring
Protection degree	IP21
Delivered with	5 fuses, hex tool, MasterBus Terminator, MasterBus cable, cable protections for DC connections



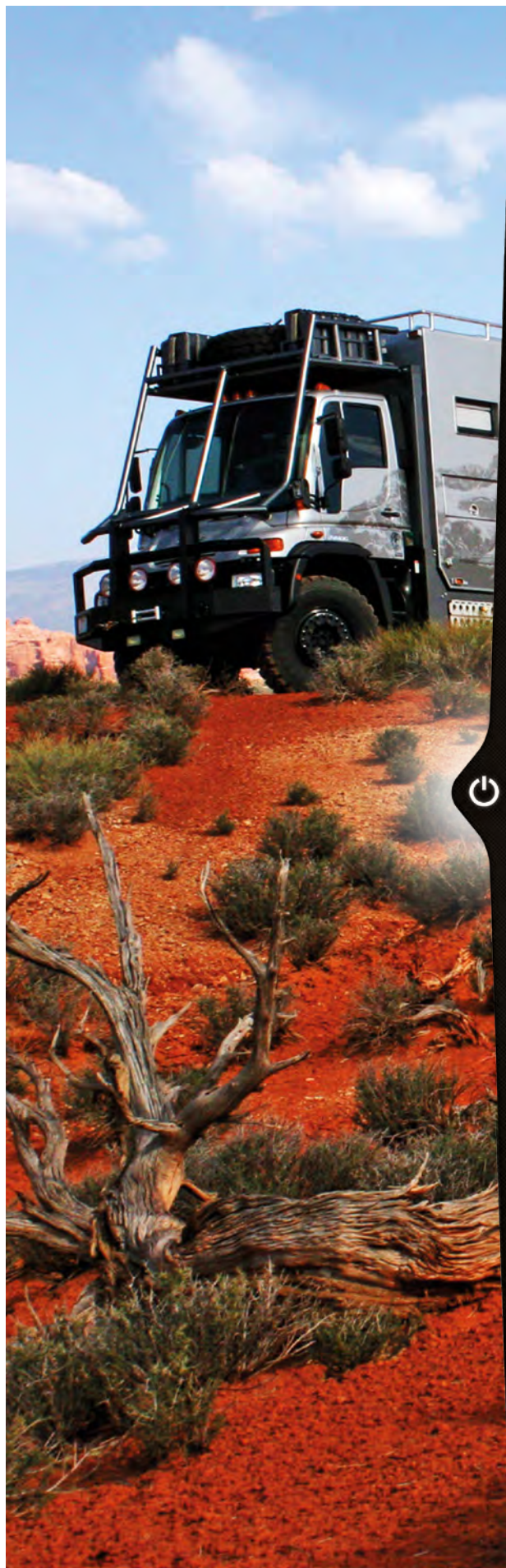
Digital DC 10x10A

As the pinnacle of system intelligence, the Mastervolt Digital DC 10x10A has ten 10 A outputs for all functions including lighting, pumps, electronics, etc. It comes standard with intelligent alarm functions and luxury options include:

- Follow me home (light stays on for a specific time).
- Delayed dimming of lights (including ten built-in dimmers).
- Alarm signal for overload.
- Every output has a hardware and software fuse.
- Reset the fuses via the MasterBus network.
- Possibility of higher currents (up to 100 A) with parallel switching of multiple outputs.
- Logical blocks.



Digital DC 10x10A	
Product code	77020400
Dimensions, h x w x d	40 x 229 x 110 mm 1.6 x 9.0 x 4.3 inch
Weight	750 gr / 1.7 lb
MasterBus powering	yes
Power consumption	<2 mA at 12/24 V
Protection degree	IP21
DC OUTPUT	
Connection	cable max. 4 mm ²
Maximum software fuse current	10 A per channel
Hardware fuse current	15 A per channel
DC INPUT	
Connections	max. 95 mm ² or directly connected to MasterShunt or DC Distribution
Maximum current	100 A
Supply voltage	8-30 V DC



Integrate your MasterBus system: MasterBus Interfaces

Mastervolt offers a wide range of interfaces to increase the versatility of your MasterBus network. Connect multiple components to distribute information to your MasterBus products or connect products that require information from the MasterBus network, such as a NMEA 2000 or Modbus network, and vice versa.

All interfaces (and modules) can be installed in various ways, from DIN rails to surface mounting. Available in ten languages: English, Dutch, German, French, Spanish, Italian, Norwegian, Swedish, Finnish and Danish.



Specifications

MasterBus USB Interface

The MasterBus USB Interface enables you to read and configure the MasterBus network via your PC.



	MasterBus USB Interface
Product code	77030100
MasterBus powering	yes (when the PC is switched on)
Dimensions, hxxwxd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 80 g / 0.18 lb
Protection degree	IP21
Delivered with	USB connection cable, MasterBus cable, MasterBus Terminator, user's manual

MasterBus NMEA 2000 Interface

The MasterBus NMEA 2000 Interface provides the MasterBus network with NMEA 2000 information, and vice versa.



	MasterBus NMEA 2000 Interface
Product code	77031800
MasterBus powering	no
Dimensions, hxxwxd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 100 g / 0.22 lb
Protection degree	IP21
Delivered with	NMEA connection cable, MasterBus cable, MasterBus Terminator, user's manual

MasterBus Modbus Interface

The MasterBus Modbus Interface can provide all information from the 'closed' MasterBus network for other monitoring and operating systems by means of the Modbus protocol.



	MasterBus Modbus Interface
Product code	77030800
MasterBus powering	no
Dimensions, hxxwxd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 80 g / 0.18 lb
Protection degree	IP21
Delivered with	MasterBus cable, MasterBus Terminator, user's manual



QUOTE

"Until obtaining the distribution of Mastervolt for Spain now more than a decade ago, we had the experience of knowing and distributing other brands of competing products. Today from our wide knowledge of the marine and automotive sectors, we can affirm that the price/quality ratio of Mastervolt products is excellent and represents a smart choice for the customer."

VICENTE SANLORENZO, CEO
AZIMUT ELECTRONICS, SPAIN

MasterBus Combi Interface

This interface integrates a Mastervolt Mass Combi in a MasterBus network and allows it to be operated or monitored via a MasterView panel or PC.



	MasterBus Combi Interface
Product code	77030475
MasterBus powering	yes
Dimensions, hxxwxd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 80 g / 0.18 lb
Protection degree	IP21
Delivered with	Interface connection cable, MasterBus Terminator, user's manual

MasterBus Inverter Interface

The MasterBus Inverter Interface integrates the Mastervolt Mass Sine inverter in a MasterBus network and allows it to be operated and monitored via MasterView or PC.



	MasterBus Inverter Interface
Product code	77030700
MasterBus powering	no
Dimensions, hxxwxd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 80 g / 0.18 lb
Protection degree	IP21
Delivered with	Interface connection cable, MasterBus cable, MasterBus Terminator, user's manual

MasterBus Serial Interface

The MasterBus Serial Interface connects conventional Mastervolt products to MasterBus. Data becomes permanently available to allow configuration, operation and monitoring via MasterView panels. Suitable for Masterlink BTM-III, Mac and Magic DC-DC converters.



	MasterBus Serial Interface
Product code	77030450
MasterBus powering	no
Dimensions, hxxwxd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 80 g / 0.18 lb
Protection degree	IP21
Delivered with	Interface connection cable, MasterBus cable, MasterBus Terminator, user's manual

Specifications

GPRS Module

Communicate with your system via mobile phone, allowing you to monitor current information or operate the system by remote control via a text message or easy shortcuts. Alarm notifications per text message are optional.



GPRS Module: Communicate with your system via mobile phone.



GPRS Module	
Product code	77031000
MasterBus powering	no
Dimensions, hxxwxd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 80 g / 0.18 lb
Protection degree	IP21
Delivered with	GPRS antenna, MasterBus cable, user's manual. SIM card not included

MasterBus Tank level Interface

This interface converts analogue sensor input signals to MasterBus data. Selectable input signals: 4-20 mA, 0-300 Ω, 8-70 V DC.



MasterBus Tank level Interface	
Product code	77030300
MasterBus powering	no
Dimensions, hxxwxd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 80 g / 0.18 lb
Protection degree	IP21
Delivered with	MasterBus cable, MasterBus Terminator, user's manual

CZone MasterBus Bridge Interface

The CZone MasterBus Bridge Interface physically connects the MasterBus and CZone networks together enabling the two networks to communicate and act as one, providing seamless control and monitoring of devices on both networks from either MasterBus or CZone displays.

Features/functions:

- Control of Mastervolt inverters and chargers from CZone displays and switches.
- Control of MasterBus output devices (turn lights, pumps, etc. on/off).
- Control of CZone output devices (turn lights, pumps, etc. on/off) via MasterBus displays and switches.
- Display CZone acquired systems information such as tank and power levels on MasterBus displays.
- Display MasterBus acquired systems information such as tank and power levels on CZone displays.
- Transfers alarms between both systems.



CZone MasterBus Bridge Interface	
Product code	80-911-0072-00
MasterBus powering	no
Dimensions, hxxwxd	69 x 69 x 50 mm 2.7 x 2.7 x 2 inch
Weight	145 g / 0.32 lb
Protection degree	IP65
Delivered with	MasterBus cable adapter, MasterBus Terminator, user's manual

Multipurpose Contact Output

Mastervolt's potential-free contact can be customised and programmed to give your MasterBus network unprecedented possibilities. Use it, for example, to control a ventilator or operate a generator from a different brand.



Multipurpose Contact Output	
Product code	77030500
Potential free contact	NO-C-NC - 1 A / 30 V DC
MasterBus powering	no
Dimensions, hxxwxd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 80 g / 0.18 lb
Protection degree	IP21
Delivered with	MasterBus cable, MasterBus Terminator, user's manual

MasterBus Repeater

Double the maximum length of your MasterBus network.



	MasterBus Repeater
Product code	77031100
MasterBus powering	yes
Dimensions, hwxwd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 90 g / 0.20 lb
Protection degree	IP21
Delivered with	MasterBus cable, MasterBus Terminator, user's manual

Digital Input

Connect up to four switches to the MasterBus network. Delivery includes connection cables.



	Digital Input
Product code	77030900
MasterBus powering	no
Dimensions, hwxwd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 80 g / 0.18 lb
Protection degree	IP21
Delivered with	cable with plug, MasterBus cable, MasterBus Terminator, user's manual

Digital AC 1x6A

Switches all AC loads, no matter where they are. Loads up to 6 A can be directly switched, higher loads should be switched via a relay.



	Digital AC 1x6A
Product code	77031500
MasterBus powering	no
Max. relay current	6 A (230 V AC single pole)
Dimensions, hwxwd	66 x 78 x 32 mm 2.6 x 3.1 x 1.3 inch
Weight	± 80 g / 0.18 lb
Protection degree	IP21
Delivered with	MasterBus cable, MasterBus Terminator, user's manual

Switch Input 3 PCB

Switch Input 3 makes Carling switches compatible with MasterBus. Multiple functions can be easily linked with this module.



	Switch Input 3 PCB
Product code	77031300
MasterBus powering	no
Dimensions, hwxwd	54 x 86 x 58 mm 2 x 3.4 x 2.3 inch (incl. mounting frame)
Distance between switches	26.1 mm
Weight	35 g / 0.08 lb (incl. MasterBus Terminator)
Protection degree	IP21
Delivered with	MasterBus Terminator, user's manual. <i>Switches and mounting frame not included</i>

Switch Input 4 PCB

Provides LED indications for additional information. For example: The LED will blink when a connected lamp fails.



	Switch Input 4 PCB
Product code	77031400
MasterBus powering	no
Dimensions, hwxwd	56 x 120 x 65 mm 2.2 x 4.7 x 2.6 inch (incl. mounting frame)
Distance between switches	27.3 mm
Weight	45 g / 0.1 lb (incl. MasterBus Terminator)
Protection degree	IP21
Delivered with	MasterBus Terminator, user's manual. <i>Switches and mounting frame not included</i>

AC Power Analyser

The AC Power Analyser is a multi-functional measuring device which can visualize the AC current and AC voltage, frequency, Cos Phi and the power of the system. On top of that it features the 'inverter control' and a free programmable 'potential free contact'.



	AC Power Analyser
Product code	77031200
MasterBus powering	yes
Dimensions, hwxwd	80 x 181 x 28 mm 3.1 x 7.1 x 1.1 inch
Weight	± 530 g / 1.17 lb
Protection degree	IP65
Delivered with	MasterBus cable, MasterBus Terminator, current transformer 100:5, user's manual

Use it to connect AC power devices such as generators or isolation transformers to the MasterBus network.

Practical: MasterBus accessories

MasterShunt fuses

The robust fuse (500 A/160 V DC, 20 kA short circuit current) is suitable for high short circuit currents from the batteries. Spare fuse available separately.



Product code	77049000
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DC Distribution fuses

The DC Distribution standard comes with four ANL fuses: 80, 80, 125 and 160 A, and a spare fuse of 125 A.



Replacement fuses and other amperages:

Product code	
77049020	20 A
77049040	40 A
77049050	50 A
77049063	63 A
77049080	80 A
77049100	100 A
77049125	125 A
77049160	160 A
77049175	175 A
77049200	200 A
77049250	250 A
77049300	300 A
77049400	400 A
77049425	425 A
77049500	500 A

MasterBus Terminator

The Terminators ensure interference-free operation, prevent reflection of data signals and ensure high communication speeds.



Product code	77040000
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MasterBus communication cable

Suitable for data traffic and powering peripheral equipment in harsh environments, this is the only cable you need for your MasterBus network. MasterBus compatible products come standard with two ports, while other equipment requires an interface.

A DIY kit is optional.



Product code	
77040020	0.2 m
77040050	0.5 m
77040100	1 m
77040300	3 m
77040600	6 m
77041000	10 m
77041500	15 m
77042500	25 m
77045000	100 m

MasterBus DIY kit

Cut your own cables to length and finish, comprising:

- Professional RJ45 crimping tool.
- 50 x MasterBus RJ45 connectors.
- 50 x green MasterBus RJ45 protection boots.
- 100 m green MasterBus CAT5E UTP cable.



Product code	77050000
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Separately available:

Product code	
77040010	25 x MasterBus RJ45 connectors, 8-pole
77040015	25 x green isolation caps for RJ45 connector



QUOTE

"We, as an established manufacturer and interior designers of upper class travel- and expedition vehicles, rely on the reliability of the Mastervolt system because unique special solutions for optimum power supply are often necessary. Custom designed, we can select the right components and know that we will meet our customers' expectations."

**KLAUS HÜNERKOPF, FOUNDER & MANAGING DIRECTOR
HÜNERKOPF SPEZIALFAHRZEUGE, GERMANY**

